

Product Specifications



DB844H90E-XY

Directed Dipole™ Antenna, 806–960 MHz, 90° horizontal beamwidth, fixed electrical tilt



- Excellent azimuth pattern shaping, 15–20 percent reduction in cell-to-cell overlap
- Superior front-to-back ratio
- Low profile for ease of zoning approval
- Outstanding field record—thousands of units deployed worldwide

CHARACTERISTICS

General Specifications

Antenna Type	Directed Dipole™
Brand	Directed Dipole™
Operating Frequency Band	806 – 960 MHz

Electrical Specifications

Frequency Band, MHz	806–896	870–960
Beamwidth, Horizontal, degrees	90	90
Gain, dBd	12.0	12.4
Gain, dBi	14.1	14.5
Beamwidth, Vertical, degrees	15.0	15.0
Beam Tilt, degrees	0	0
Upper Sidelobe Suppression (USLS), typical, dB	15	15
Front-to-Back Ratio at 180°, dB	40	40
VSWR Return Loss, db	1.33:1 17.0	1.4:1 15.6
Intermodulation Products, 5th Order, 2 x 20 W, dBc	-150	-150
Input Power, maximum, watts	500	500
Polarization	Vertical	Vertical
Impedance, ohms	50	50
Lightning Protection	dc Ground	dc Ground

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Mechanical Specifications

Color	Light gray
Connector Interface	7-16 DIN Female
Connector Location	Back
Connector Quantity	1
Wind Loading, maximum	262.4 N @ 100 mph 59.0 lbf @ 100 mph
Wind Speed, maximum	241.4 km/h 150.0 mph

Dimensions

Depth	203.2 mm 8.0 in
Length	1219.2 mm 48.0 in
Width	165.1 mm 6.5 in
Net Weight	6.4 kg 14.0 lb

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC
China RoHS SJ/T 11364-2006

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)



Included Products



DB5083

Downtilt Mounting Kit for 4.5 in (114.3 mm) OD round members



DB380

Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members

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Horizontal Pattern

Vertical Pattern

